

**DUST COLLECTING APPARATUS AND AIR-CONDITIONING APPARATUS****Patent number:** EP1175943**Publication date:** 2002-01-30**Inventor:** KATOU RYOU (JP); TASHIRO YOSHIKAZU (JP)**Applicant:** MATSUSHITA SEIKO KK (JP)**Classification:****- International:** B03C3/12; B03C3/155; B03C3/38; B03C3/41; B03C3/04; B03C3/34; B03C3/40; (IPC1-7): B03C3/38; B03C3/14; B03C3/41; B03C3/45; B03C3/60**- european:** B03C3/12; B03C3/155; B03C3/38; B03C3/41**Application number:** EP20010906295 20010226**Priority number(s):** WO2001JP01402 20010226; JP20000058462 20000303; JP20000206492 20000707**Also published as:**

WO0164349 (A1)

US6635106 (B2)

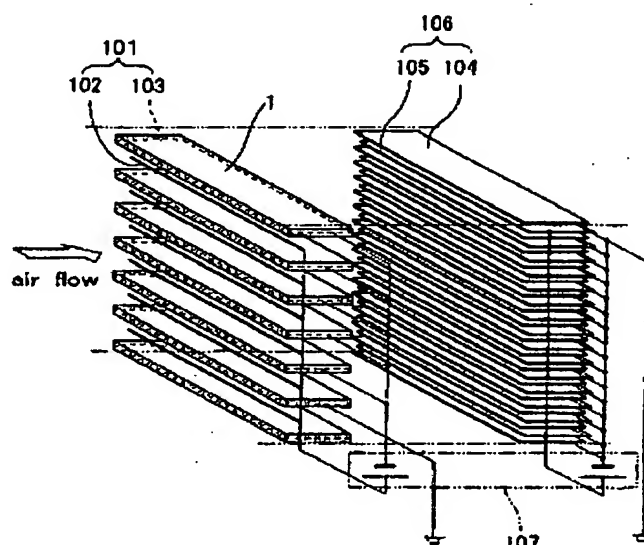
US2003005824 (A1)

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**Abstract of EP1175943**

A dust is electrostatically charged using an ion-releasing means adapted to release only ionized air with occurrence of a corona discharge, thereby reducing the amount of power consumed and the amount of ozone generated to the utmost. An electric dust collector includes a charging section comprising a discharging electrode and an earthed electrode, a dust-collecting section comprising a voltage-applied electrode and an earthed electrode and an air feed fan. A dust introduced into the dust collector is electrostatically charged by breaking the air insulation by a corona discharge occurring in the charging section to produce ionized air and then removed in the dust-collecting section where an electric field is formed. However, because the corona discharge is generated, there is a problem that the discharged current is large, and the amount of power consumed and the amount of ozone generated are large.


**FIG. 1**

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## DUST COLLECTING APPARATUS AND AIR-CONDITIONING APPARATUS

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Publication date: 2002-01-30  
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Requested Patent: WO0164349  
Application Number: EP20010906295 20010226  
Priority Number(s): WO2001JP01402 20010226; JP20000058462 20000303; JP20000206492 20000707  
IPC Classification: B03C3/38; B03C3/41; B03C3/45; B03C3/60; B03C3/14  
EC Classification: B03C3/155, B03C3/12, B03C3/38, B03C3/41  
Equivalents: US2003005824  
Cited patent(s):

### Abstract

A dust is electrostatically charged using an ion-releasing means adapted to release only ionized air with occurrence of a corona discharge, thereby reducing the amount of power consumed and the amount of ozone generated to the utmost. An electric dust collector includes a charging section comprising a discharging electrode and an earthed electrode, a dust-collecting section comprising a voltage-applied electrode and an earthed electrode and an air feed fan. A dust introduced into the dust collector is electrostatically charged by breaking the air insulation by a corona discharge occurring in the charging section to produce ionized air and then removed in the dust-collecting section where an electric field is formed. However, because the corona discharge is generated, there is a problem that the discharged current is large, and the amount of power consumed and the amount of ozone generated are large. 

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